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ABSTRACT

THIS BIBLIOGRAPHY OF EVALUATION INSTRUMENTS OF HEALTH KNOWLEDGE, ATTITUDES AND BEHAVIORS MAY BE OF ASSISTANCE TO THOSE PERSONS WHO ARE UNDERTAKING TESTING PROGRAMS AND IT MAY ALSO SERVE TO POINT OUT THE NEED FOR ADDITIONAL WELL-DEVELOPED TEST INSTRUMENTS. THE TESTS LISTED IN THIS BIBLIOGRAPHY HAVE NOT BEEN EVALUATED OR SCREENED. KNOWLEDGE TESTS DEVELOPED SINCE 1952 AND ATTITUDE AND BEHAVIOR TESTS DEVELOPED SINCE 1949 HAVE BEEN INCLUDED. PART ONE IS CONCERNED WITH PUBLISHED INSTRUMENTS, FOR ELEMENTARY, JUNIOR, AND SENIOR HIGH SCHOOL, AND COLLEGE. PART TWO GIVES REFERENCES FOR THESES, DISSERTATIONS, AND PERIODICALS FOR THE SAME EDUCATIONAL LEVELS. SOME ENTRIES INCLUDE BRIEF ANNOTATIONS. (KJ)

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EVALUATION INSTRUMENTS IN HEALTH EDUCATION

CG004952

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AMERICAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION, AND RECREATION

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EVALUATION INSTRUMENTS IN HEALTH EDUCATION

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EVALUATION INSTRUMENTS
IN
HEALTH EDUCATION

An Annotated Bibliography
of
Knowledge, Attitude, and Behavior Tests

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Introduction

The evaluation of health knowledge, attitudes, and behaviors is an integral part of modern health instruction programs in our schools and colleges. This bibliography of evaluation instruments may be of assistance to those persons who are undertaking testing programs, and it may also serve to point out the need for additional well-developed test instruments. This is the fourth revision of this bibliography. The first compilation, published in 1961, included 66 tests; the current revision includes 135. Most of this increase seems to have occurred since 1965, and is in the area of knowledge testing.

Before undertaking the selection of a test, the testing program's purposes should be well-defined. Possible purposes include (1) pointing up strengths and weaknesses in teaching procedures, (2) indicating areas needing emphasis in the instructional programs, (3) securing evidence useful in determining the need for instituting a health instruction program, (4) determining the proper placement of students in health classes, (5) determining the changes in knowledge, attitudes, and behaviors after an instructional program, (6) providing a basis for grading student progress, and (7) measuring student achievement as a part of the school's general testing program.

At least several sets of test materials should be reviewed and evaluated before a final decision is made. The content of the test itself should be considered, and its validity, reliability, and norms should be studied for their appropriateness to the specific school situation. The manual of instructions accompanying the test will be valuable in this appraisal.

The tests listed in this bibliography have not been evaluated or screened. This significant responsibility is left to the prospective test user who has a specific need and school situation. Knowledge tests developed since 1952 and attitude and behavior tests developed since 1949 have been included. The prospective test user should be cautioned about the out-of-date test, and realize that even the newest test may have several obsolete items. Many of the published instruments have been revised in an attempt to keep up-to-date, but even the revisions have not always kept pace with scientific developments.

The preparation of this bibliography has involved an extensive survey of research compilations, thesis and dissertation indexes, books on evaluation in health and physical education, correspondence with test publishers, and correspondence with health educators in all colleges and universities offering graduate work in health education. However, bibliographies, too, become outdated. The prospective test user is advised to contact the test publishers to locate any newly published or revised instruments. Additional up-to-date information about theses and dissertations that may make contributions to the testing field may be found in

Dissertation Abstracts (Ann Arbor, Michigan: University Microfilms, Inc.); H. M. Silvey (Ed.). *Master's Theses in Education* (Cedar Falls, Iowa: Research Publications); Stanley Elam (Ed.), *Research Studies in Education* (Bloomington, Indiana: Phi Delta Kappa, Inc.); and Alfred W. Hubbard and Raymond A. Weiss (Eds.), *Completed Research in Health, Physical Education, and Recreation* (Washington, D.C., American Association for Health, Physical Education, and Recreation, published annually).

Special appreciation is expressed to the health educators in colleges and universities offering graduate work in health education. Without the assistance of these persons who, since the first compilation, have provided reports of test development by their students, it would be even more difficult to keep up with the latest evaluation instruments.

PART I

Published Instruments

Elementary School

1. Adams, Georgia S. and John A. Sexton. *California Tests in Social and Related Sciences.* Part III, Related Sciences, Test 5, Health and Safety. Monterey, California: California Test Bureau, 1953.

   For grades 4-8, this 75-item test is composed of true-false and multiple choice items designed to measure knowledge in the health and safety areas. Norms and a manual of directions are available. This test is one of a battery of subject matter tests in the sciences for the upper elementary grades.

2. Crow, Lester D. and Loretta C. Ryan. *Health and Safety Education Tests.* Brookport, Ill.. Psychometric Affiliates, revised, 1960.

   For grades 3-6, this 90-item multiple choice test was constructed to measure a student's knowledge, application of rules, understanding of cause and effect, and ability to select the best habits in health and safety areas. Norms and teacher's directions are available.

3. Dzenowagis, Joseph G. *Self-Quiz of Safety Knowledge.* Chicago: National Safety Council, School and College Department, 1956.

   This test, consisting of 40 safety misconceptions, is designed to measure safety preparedness at the fifth and sixth grade levels. See 'What's Your Safety I.Q.?', *Safety Education,* 36:6-7, November 1956, for a description of the test.

4. Klein, Walter C. *A Health Knowledge and Understanding Test for Fifth Grade Pupils.* La Crosse, Wis.: Northern Engr. and Mfg. Co., 1960.

   This test has two forms and is composed of 60 best-answer type items. Norms and T-scores are developed. Refer to: Klein, Walter C. 'Development of a Health Knowledge and Understanding Test for 5th Grade Pupils,' *Research Quarterly,* 32:530-37, December 1961.

5. National Safety Council. *Bicycle Safety Information Test.* Chicago:

National Safety Council, (n.d.).

This is a 20-item true-false test suitable for use at the elementary level.

6. Speer, Robert K. and Samuel Smith. *Health Test.* Brookport, Ill.: Psychometric Affiliates, Form A revised 1960, Form B revised 1957.

This test, for grades 3-8, has two forms and was designed to test the student's judgment, understanding, and knowledge of health facts. Multiple choice and problem-type questions are used. Norms and teacher's directions are available.

7. Yellen, Sylvia. Edward B. Johns, Consulting Ed. *Health Behavior Inventory: Elementary.* Monterey, California: California Test Bureau, 1962.

This 40-item picture-question inventory is designed for grades 3, 4, 5, and 6. Personal health habits, nutrition, safety, rest and relaxation, dental health, cleanliness, and disease prevention are some of the areas included.

Junior High School

8. Adams and Sexton. *California Tests in Social and Related Sciences.* See #1.

9. Colebank, Albert D. Edward B. Johns, Consulting Ed. *Health Behavior Inventory: Junior High.* Monterey, California: California Test Bureau, 1962.

This 100-item test for grades 7, 8, and 9 evaluates health behaviors (25 items), attitudes (25 items), and knowledges (50 multiple choice items).

10. Kilander, H. Frederick. *Information Test on The Biological Aspects Of Human Reproduction.* 3rd Ed., Staten Island, New York: Dr. Glenn Leach, Wagner College, 1968. (Mimeographed)

This 33-question multiple choice test is for junior high school through college levels. Norms are available. Single copies may be obtained free from Dr. Leach. The test is included in the Teacher's Manual for *School Health Education,* Second Ed., The Macmillan Co., 1968.

11. _____. *Information Test on Drugs and Drug Abuse.* 3rd. Ed., Staten Island, New York: Dr. Glenn Leach, Wagner College, 1968.

This 25-question multiple choice test is for junior high school

through college levels. Norms are available. Single copies may be obtained free from Dr. Leach.

12. _____. *Information Test on Smoking and Health.* Staten Island, New York: Dr. Glenn Leach, Wagner College, 1964. (Mimeographed)

This 25-item multiple choice test is for junior high school through college levels. The questions are based on the Surgeon General's Report on *Smoking and Health.* Norms are available. Single copies may be obtained free from Dr. Leach.

13. _____. *Nutrition Information Test.* 5th Ed., Staten Island, New York: Dr. Glenn Leach, Wagner College, 1968. (Mimeographed)

This 33-question multiple choice test is for junior high school through college levels. Norms are available. Single copies may be obtained free from Dr. Leach. The test is included in the Teacher's Manual for *School Health Education,* second edition, by the author, the Macmillian Co., 1968.

14. Lawrence, Trudys, *Getting Along: Grades 7, 8, 9.* Temple City, California: The author, 6117 North Rosemead Boulevard, 1964.

This instrument, for the evaluation of emotional health, consists of 45 situation-response items with multiple choice answers. Original line drawings are used to illustrate the two forms of the test. Norms (3,114 pupils)and other information are available in an accompanying Teacher's Manual.

15. Schwartz, William F. *Achievement Test on Syphilis and Gonorrhea.* Durham, N. C.: Family Life Publications, Inc., 1965.

This is a 25-item multiple choice test, reprinted from Schwartz's *Teacher's Handbook on Venereal Disease Education* which is published by the American Association for Health, Physical Education, and Recreation.

16. _____. *Teaching Test on Syphilis and Gonorrhea.* Durham, N. C.: Family Life Publications, Inc., 1965.

This is a 50-item multiple choice test, reprinted from Schwartz's *Teacher's Handbook on Venereal Disease Education* which is pub-

lished by the American Association for Health, Physical Education, and Recreation.

17. Shaw, John H. and Maurice E. Troyer. *Health Education Test: Knowledge and Application.* Brookport, Ill.: Psychometric Affiliates, Form A revised 1956; Form B revised, 1957.

    For grades 7-12 and college freshmen, this 100-item test has two forms consisting of multiple choice and true-false items. Knowledge and the application of knowledge are tested. Some physical education items are also included. Norms (based on over 6,000 students in various sections of the United States) and a manual of directions are available.

18. Speer and Smith. *Health Test.* See #6.

19. Thompson, Clem W. *Thompson Smoking and Tobacco Knowledge Test.*

    This 25-item multiple choice test was constructed from the concepts which had previously been established by experts as the most important facts in the physiological, psychological, and socio-economic areas of smoking and tobacco. The word difficulty of the test was established and found suitable at or above the seventh grade level. Refer to: Thompson, Clem W. 'Thompson Smoking and Tobacco Knowledge Test.' *Research Quarterly,* 35:60-68, March 1964.

20. Veenker, C. Harold. *A Health Knowledge Test for the Seventh Grade.* Lafayette, Indiana: The author, Purdue University, 1960.

    Two test forms, each consisting of 70 multiple choice items, were constructed. Printed forms and a test manual are available from the author.
    Refer to: Veenker, C. Harold. 'A Health Knowledge Test for the Seventh Grade,' *Research Quarterly,* 30:338-48, October 1959.

Senior High School

21. Dearborn. *College Health Knowledge Test.* See #40.

22. Johns, Edward B., Warren L. Juhnke, and Marian B. Pollock. *Health Behavior Inventory.* Los Angeles: Tinnon-Brown Publishing Co.

    This revision of the Johns-Juhnke-Pollock *Health Behavior Inventory* is in process.

23. Kilander, H. Frederick. *Information Test on the Biological Aspects of Human Reproduction.* See #10.

24. _____. *Information Test on Drugs and Drug Abuse.* See #11.

25. _____. *Information Test on Smoking and Health.* See #12.

26. *Kilander Health Knowledge Test.* 6th Ed., Staten Island, N.Y.: Dr. Glenn Leach, Wagner College, 1966.

    This instrument, designed for high school and college students and adults consists of 100 multiple choice items representing nine areas of health knowledge. Norms are available.

27. _____. *Nutrition Information Test.* See #13.

28. LeMaistre, E. Harold and Marion B. Pollock. Edward B. Johns, Consulting Ed. *Health Behavior Inventory: Senior High.* Monterey, California: California Test Bureau, 1962.

    This 75-item inventory, for senior high school students, consists of problem-type items based upon situations met by students of this age.

29. McHugh, Gelolo. *Sex Knowledge Inventory.* Durham, North Carolina: Family Life Publications, Inc., Form Y, 1959.

    Form Y of this inventory measures understanding of the human reproduction system and vocabulary relating to sex. It is suggested that this form could be used at high school, college, and adult levels. An instructor's manual and norms are available.

30. _____. *A Venereal Disease Knowledge Inventory.* Durham, North Carolina: Family Life Publications, Inc., 1966.

    This is a 52-item multiple choice test. High school and college norms are available and a teacher's guide is being prepared.

31. New York State Council on Health and Safety Education. *Health Knowledge Examination for the Secondary Level.* Developed by a committee of the Council, 1962.

    This test consists of 80 multiple choice items. Sample test copies may be obtained from John S. Sinacore, State University College, Cortland, New York.

32. Pollock, Marion B. *Mood Altering Substances: A Behavior Inventory.* Los Angeles: Tinnon-Brown Publishing Co., 1968.

    This inventory is designed for senior high school and college students. It consists of 75 multiple choice questions and five short

answer items.
Refer to: Pollock, Marion B. 'An Evaluation Instrument to Appraise Knowledge and Behavior Regarding Use of Stimulants and Depressants,' *Research Quarterly,* 39:662-67, October 1968.

33. Schwartz, William F. *Achievement Test on Syphilis and Gonorrhea.* See #15.

34. _____. *Teaching Test on Syphilis and Gonorrhea.* See #16.

35. Shaw and Troyer. *Health Education Test: Knowledge and Application.* See #17.

36. *Test Your A. Q. (Alcohol Quotient).* Chicago: American Medical Association, Committee on Medicolegal Problems, (n.d.).

This is a 20-question true-false test which provides a basis for a good discussion at the senior high and college levels.

37. Thompson, Clem W. *Thompson Smoking and Tobacco Knowledge Test:* Mankato, Minnesota: The author, Mankato State College, 1963. See #19.

College

38. Bridges, A. Frank. *Health Knowledge Test for College Freshmen.* Brookport, Ill.: Psychometric Affiliates, 1956.

This 100-item multiple choice test measures knowledge in thirteen health areas. Norms (based on over 3,000 college freshmen from seventeen states) and a manual of directions are available.

39. Crawford, Marilyn. *Madison Health Knowledge Test.* Harrisonburg, Virginia: The author, Madison College, 1964.

This 100-item multiple choice test was designed to measure knowledge in 11 health areas. T-scores and percentiles, based on 1,600 test scores, are available. The college population upon which norms are based was largely freshmen, female, and from the state of Virginia.

40. Dearborn, Terry H. *College Health Knowledge Test.* Stanford, California: Stanford University Press, revised, 1959.

One hundred multiple choice items test knowledge in 11 health areas. Norms and a manual of directions are available. Although designed for the college level, this test is said to be suitable for senior high schools offering a full semester course in personal hygiene.

41. Gaines, Josephine. *Student Self-Appraisal Inventory of Interests and Estimated Knowledge in Major Health Education Areas.* New York: The author, Department of Physical Education, Health, and Recreation, New York University, revised, 1961. (Mimeographed.)

    Although useful primarily in planning content in the college health education course, the knowledge portion of this inventory could be used in evaluating the change in extent of knowledge following teaching in specific health areas. The complete inventory is published in the Instructor's Manual for *Health for Effective Living,* fourth edition, by Edward B. Johns, Wilfred C. Sutton, and Lloyd E. Webster, McGraw-Hill, Inc., 1966.

42. Johns-Juhnke-Pollock. *Health Practice Inventory.* See #22.

43. Kilander, H. Frederick. *Information Test on the Biological Aspects of Human Reproduction.* See #10.

44. _____. *Information Test on Drugs and Drug Abuse.* See #11.

45. _____. *Information Test on Smoking and Health.* See #12.

46. _____. *Kilander Health Knowledge Test.* See #26.

47. _____. *Nutrition Information Test.* See #13.

48. Leonard, Margaret L. and Clark W. Horton. *An Inventory of Certain Practices on Health.* Sacramento: California State Department of Education, 1949.

    This inventory was developed for use at the college level by the California Community Health Education Project. Its 88 statements can be used to study actual health behaviors from the standpoint of the student's practices and also from the standpoint of the extent to which certain illnesses or health problems become a part of the pattern of behavior. An instruction manual is available.

49. _____. *An Inventory of Points of View Related to Health.* Sacramento: California State Department of Education, 1949.

    This inventory, developed for college students by the California Community Health Education Project, consists of 109 statements which provide an opportunity for determining student attitudes on individual and public health.

50. _____. *Reactions to Certain Situations Related to the Health of Elementary School Children.* Sacramento: California State Department of Education, 1949.

This situation-response type inventory was designed to be used with pre-service or in-service teachers at the elementary level. Consisting of 102 items, it explores opinions concerning the role of the teacher in the school health program. An instruction manual is available.

51. McHugh. *Sex Knowledge Inventory.* See #29.

52. McHugh, Gelolo. *A Venereal Disease Knowledge Inventory.* See #30.

53. Meise, William C. *A Scale for the Measurement of Attitudes Toward Healthful Living.* The author: Slippery Rock State College, Slippery Rock, Pennsylvania, 1962.

    This Likert-type scale consists of 100 items and was constructed to evaluate opinions in twelve health areas. An instructor's manual is available. Consult the author about quantity purchases.

54. Pollock, Marion B. *Mood Altering Substances: A Behavior Inventory.* See #32.

55. Reid, Carmen Patricia. Edward B. Johns, Consulting Ed. *Health Behavior Inventory: College Level.* Monterey, California: California Test Bureau, 1966.

    This test consists of descriptions of a number of health problems on which 100 multiple choice test items are based.

56. Shaw and Troyer. *Health Education Test: Knowledge and Application.* See #17.

57. Southworth, Warren H. *An Inventory for Study of What College and University Students Know and Do About Health Services and Facilities.* Evanston, Illinois: The American College Health Association, 1966.

    This three-part inventory consists of 156 multiple choice items. Student use of services and facilities is investigated in Part I by means of 76 items while the 56 items in Part II relate to student information about services and facilities. Part III consists of 24 personal data items. Copies of the Inventory may be purchased from A.C.H.A. Refer to: Southworth, Warren H. 'An Inventory for Studying . . .,' *Journal of the ACHA,* 15:33-49, October 1966.

58. *Test Your A.Q. (Alcohol Quotient).* See #36.

59. Thompson, Clem W. *Thompson Smoking and Tobacco Knowledge Test.* See #19.

PART II

Theses, Dissertations, and Periodical References

Elementary School

60. Brown, Irene Lou C. *An Appraisal of the Effectiveness of Dental Health Education in Selected Religious Sponsored Schools.* Master's thesis, University of California, Los Angeles, 1959.

    A thirty-one item *Dental Health Practice Inventory* for grades 1-4 was developed as a part of this study. Many of the items are illustrated, and all are answered by underlining a phrase indicating the respondent's habitual actions.

61. Dzenowagis, Joseph G. *A Determination of the Prevalence of Certain Harmful Health and Safety Misconceptions Among Fifth and Sixth Grade School Children.* Doctoral dissertation, Boston University, Boston, 1953.

    An instrument, consisting of 216 misconceptions, was constructed to determine the prevalence of misconceptions in this group.
    Refer to: Dzenowagis, Joseph G., Joseph Borozne, and Leslie W. Irwin. 'The Prevalence of Certain Harmful Health and Safety Misconceptions Among Prospective Elementary Teachers,' *Research Quarterly,* 26:44-48, March 1955.
    _____, and Leslie W. Irwin. 'The Prevalence of Certain Harmful Health and Safety Misconceptions Among Fifth and Sixth Grade Children,' *Research Quarterly,* 25:150-63, May 1954.
    _____, Patricia V. McPherson, and Leslie W. Irwin. 'Harmful Health and Safety Misconceptions of a Group of Tenth-Grade Girls,' *The Journal of School Health,* 24:240-45, November 1954. (Same instrument as above.)

62. _____. 'Prevalence of Certain Dangerous Safety Misconceptions Among a Group of Sixth Grade Children.' *The Journal of School Health,* 33:26-32, January 1963.

    Using a variation of the true-false type of question, a 50-item safety inventory was developed. Students responded to the test items by answering 'true,' 'probably true,' 'false,' 'don't know,' or 'don't understand.'

63. 'How Much Do Your Pupils Know About Safety?' *Safety Education,* 42:25-31, September 1963.

    This 150 item true-false test is divided into eight safety areas

(home, traffic, sports, holiday, etc.), and is suggested as a starting point for test construction and curriculum building by the classroom teacher. Reprints are available from the National Safety Council.

64. 'How Much Have Your Pupils Learned About Safety?' *Safety Education,* 43:19-26, May 1964.

This test closely parallels the preceding one, although item construction here is an 'underline the correct phrase' format. The two tests can be used as pre and post-tests, or either could be used alone.

65. Kussman, Bernadine L. *Construction of a Health Knowledge Test in Community Health for the Second Educational Level.* Master's thesis, University of California, Los Angeles, 1967.

This test consists of 50 multiple choice items, designed for students in grades four, five, and six. One test form is available. Publication by Tinnon-Brown Publishing Co., Los Angeles, is expected soon.

66. Lawrence, Trudys. *Appraising the Emotional Health Knowledge of A5 Pupils.* Independent study, University of Southern California, Los Angeles, 1962.

The appraisal instrument, *Getting Along,* is a situation-response emotional health test. It consists of 29 illustrated multiple choice items, and is available from the author, 6117 North Rosemead Blvd., Temple City, California.

67. Lohr, Ruth Stillman. *The Construction of a Health Knowledge Test for the Upper Elementary Grades.* Master's thesis, University of California, Los Angeles, 1961.

Fourteen health areas, determined by an analysis of current elementary health textbooks, are included in this fifty-item multiple choice test. The resulting instrument proved to be valid, reliable, objective, and practical to administe

68. Miller, Ben W. 'Skill Tests for Pedal Pushers,' *Safety Education,* 41:23-28, March 1962.

Twelve performance tests are designed to measure skill on a bicycle. Skills tested include balance, pedaling, braking, hand signaling, dismounting, and fine control. Reprints of the article may be obtained from the National Safety Council.

69. Reese, Janet. *A Menstruation Knowledge Test for Young Girls.*

Independent study, Purdue University, Lafayette, Ind., 1966.

This 50-item multiple choice test was designed for grades five through seven. One test form was developed.

70. Robinson, Gretchen E. *Selected Eating Habits, Attitudes and Nutrition Knowledge of Sixth Grade Pupils in Union County, Ohio.* Master's thesis, Indiana University, Bloomington, 1967.

A three part questionnaire was developed. Part I, 'My Food Habits,' consists of thirteen questions and was designed to discover specific food practices. Part II, 'What Do I Know?' attempted to discover students' knowledge about food and their ability to apply it. Part III, 'My Likes and Dislikes,' was designed to give an indication of the nutrition value of the customary food intake of the student.

71. Spears, Irene. *Construction of a Health Education Knowledge Test in Growth and Development for the Second Educational Level.* Master's thesis, University of California, Los Angeles, 1967.

This test consists of 40 multiple choice items, designed for students in grades four, five, and six. One test form is available.

Junior High School

72. Dalis, Gus Thomas. *Development and Application of a New Health Education Appraisal Instrument.* Master's thesis, University of California, Los Angeles, 1961.

This instrument was designed to evaluate the effectiveness with which the objectives of a health education course have been met. By checking an inventory, students were asked to indicate what they had learned in a variety of health areas, and whether they believed additional instruction would be helpful. Although not suitable for individual student grading purposes, this instrument might be helpful in determining the general level of knowledge of a freshmen or sophomore group.

73. Douglas, Phyllis L. *A Determination of the Prevalence of Certain Harmful Safety Misconceptions Among Seventh and Eighth Grade Pupils.* Doctoral dissertation, Boston University, Boston, 1961.

This instrument consists of 200 statements of misconceptions which were validated by 20 safety experts. Previous studies, textbooks, articles, television, and other sources were used in the development of the statements.

74. Drake, Florence Katherine. *An Evaluation Instrument for Appraising Student Progress in Tuberculosis Education for Grades 7-8-9.* Master's thesis, University of California, Los Angeles, 1960.

This sixty-item inventory is designed to measure health knowledge, attitudes, and behavior in the area of tuberculosis and respiratory disease education. Test items are related to nine different health areas.

75. Fulton, Martin William. *A Traffic Safety Attitude Scale for 9th Grade Students.* Doctoral dissertation, Indiana University, Bloomington, 1965.

This attitude scale consists of situation-response attitude statements (designed with a stem and alternatives). Two forms (one for each sex) were developed.

76. Harich, Mary F. *Attitude Changes Among Ninth Grade Girls Following Instruction in the "Development of Healthy Sexuality."* Master's thesis, University of Maryland, College Park. (Completion expected in 1969.)

This instrument consists of 24 scaled (1-7) bipolar adjectives. Administration time is 30 minutes.

77. Harrison, Price E., Jr. *A Determination of the Prevalence of Certain Harmful Health Misconceptions Among Junior High School Students Attending Public Schools in Metropolitan Areas.* Doctoral dissertation, Boston University, Boston, 1962.

Two 90-item forms of a Health Knowledge Inventory were constructed, each form consisting of 70 harmful health misconceptions and 20 true concepts.
Refer to: Harrison, Price E., Jr. and Leslie W. Irwin. 'Certain Harmful Health Misconceptions of Junior High School Students attending Public Schools in Metropolitan Areas,' *Research Quarterly,* 35:491-96, December 1964.

78. Hong, Priscilla Chong. *Construction of Test Items to Evaluate the Health Knowledge of Seventh Grade Pupils in the Los Angeles City Schools.* Master's thesis, California State College at Los Angeles, 1965.

A 50-item multiple choice test, based on the *Instructional Guide* for the Los Angeles seventh grade health science curriculum was developed. Knowledge in the areas of personal health, growth and development, health services, and products and emergency care was evaluated.

79. Ladner, Linda Rae. *Knowledge Test on Smoking.* Master's thesis, University of Illinois, Urbana, 1968.

This is a 47-item multiple choice test.

80. Lowell, Bernard. *Television Health Advertising and Its Relationship to Health Attitudes as Measured by a Sentence Completion Test.* Doctoral dissertation, University of Maryland, College Park, 1962.

In order to determine the above relationships, a sentence completion test was developed and used at the ninth grade level. Sentence stems are related to products dealing with relief from pain and tension, products dealing with food and nutrition, and products dealing with the prevention aspects of health.

81. Lundh, Ina Joanna. *The Development of an Instrument for Appraising Dental Health Knowledges, Attitudes, and Practices of Junior High School Students.* Master's thesis, University of California, Los Angeles, 1957.

Textbooks, dental health teaching outlines, and other tests and inventories were used in the development of this reliable and valid instrument. The inventory contains 15 practice items, 25 attitude items, and 30 multiple choice knowledge items.

82. Mayshark, Cyrus, *A Health and Safety Attitude Scale for the Seventh Grade.* Doctoral dissertation, Indiana University, Bloomington, 1954.

Two forms, consisting of 60 situation-response, multiple choice items, were developed.
Refer to: Mayshark, Cyrus. 'A Health and Safety Attitude Scale for the Seventh Grade,' *Research Quarterly,* 27:52-59, March 1956.

83. McGinty, Alice. *A Comparative Study of Alcohol and Tobacco Knowledges with Practices Among 520 Junior High School Girls.* Master's thesis, California State College at Los Angeles, 1965.

A 28 statement true-false smoking questionnaire was developed by the author. Alcohol knowledge was determined by using the Pennington, Dempsey, Passey *Scale for the Assessment of Knowledge Concerning Alcohol and Its Use* (Montgomery, Ala. Commission of Alcoholism, n.d.).

84. Myers, Frank H. *A Safety Attitude Scale for the Seventh Grade.* Doctoral dissertation, Indiana University, Bloomington, 1955.

Two test forms were constructed, each consisting of 60 situation-response multiple choice items.
Refer to: Myers, Frank H. 'Safety Attitude Scale for the Seventh Grade.' *Research Quarterly,* 29:320-32, October 1958.

85. Nethers, Gloria Jean. *Knowledge-Attitude Test on Nutrition.* Master's thesis, University of Illinois, Urbana, 1968.

This test includes 40 multiple choice items and 21 attitude scale items.

86. Poole, Richard D. *A Health Knowledge Test for High School.* Doctoral dissertation, Indiana University, Bloomington, 1959.

Two test forms, each consisting of 72 best answer type items, were developed. Percentile and T-scores norms are available.

87. Reese, Janet. *A Menstruation Knowledge Test for Young Girls.* See #69.

88. Sallak, V. J. *A Study of Smoking Practices of Selected Groups of Junior and Senior High School Students in Public Schools in Erie County (Exclusive of the City of Buffalo.)* Doctoral dissertation, State University of New York, Buffalo, 1960.

The *Smoking Habits Questionnaire,* developed for use in this study, was chiefly concerned with the extent of the respondent's use of tobacco and the form of the tobacco smoked. Additional questions made inquiry about parental smoking practices and the respondent's other health habits. Single sample copies may be obtained from the author at the Buffalo and Erie County Tuberculosis Association, 766 Ellicott Street, Buffalo, New York.
Refer to: Sallack, V. J. 'A Study of Smoking Practices of Selected Groups of Junior and Senior High School Students in Public Schools in Erie County, N.Y. *The Journal of School Health,* 31:307-14, November 1961.

89. Stradtman, Alan Dickie. *Understanding of Some Junior High School Pupils in Some Aspects of Family Health Education.* Doctoral dissertation, University of California, Los Angeles, 1964.

A test of sex knowledge and a family health education inventory were developed for use in this study.

90. Vincent, Raymond J. *An Investigation of the Attitudes of Eighth Grade, Tenth Grade, and Twelfth Grade Students Toward Smoking Marihuana.* Doctoral dissertation, Southern Illinois University, Carbondale, 1968.

This instrument consists of twenty items of the Thurstone equal-appearing interval type.

91. Wilkes, Dorothy Jane. *An Analysis of Health Practices of Junior High School Pupils with Implications for School Health Instruction.* Master's thesis, University of California, Los Angeles, 1960.

Nine different health areas were included in the construction of this valid and reliable 56-item inventory. All items are of the multiple choice type.

Senior High School

92. Attwood, Madge L. *Construction of an Instrument for Evaluating Drug Abuse Knowledge in High School Students.* Master's thesis, University of California, Los Angeles, 1968.

The one test form which was developed consists of 33 multiple choice, 13 matching, and 4 two-choice items.

93. Augustin, Wilbert Raymond. *The Construction and Standardization of Two Alternate Forms of a Health Knowledge Test for Use in the Public Senior High Schools of Philadelphia, Pennsylvania.* Doctoral dissertation, Temple University, Philadelphia, 1959.

Two parallel forms were constructed each consisting of 75 multiple choice items. Accepted standards for validity and reliability were met. Norms were set up in the form of percentile ranks for each form by grade level and sex. The School District of Philadelphia is currently using a 120-item form of these tests.

94. Benson, Berneda C. *The Construction and Administration of a Knowledge Test Regarding the Use of Alcoholic Beverages for High School Students.* Master's thesis, Texas Woman's University, Denton, 1967.

A 76-item multiple choice alcohol knowledge test was developed for this study. Topics on which questions were based included physical and psychological effects, treatment and prevention, socio-economic factors, safety factors, and the disease concept. Items were validated by a group of experts in alcohol education and/or rehabilitation.

95. Bejerke, Richard A. *Relationships Between Self-Appraised Health Knowledge and Tested Health Knowledge in Selected Eleventh Grade Students.* Master's thesis, University of Washington, Seattle, 1966.

Respondents were asked to appraise their health knowledge (none, little, adequate, considerable) on this 75-item questionnaire. Ten general health education areas were included. The LeMaistre-Pollock *Health Behavior Inventory* was used in verifying estimates.

96. Briney, Kenneth L. *A Study of Selected Students, Grade 12, Relating Knowledge Of Behavior in Regard to Smoking.* Doctoral dissertation, University of Califomia, Berkeley, 1964.

This 66-item multiple choice examination tests knowledge of the effects of smoking. Test content includes the following subject areas: cancer (major emphasis), longevity, physiology, composition of cigarette smoke, and heart disease except cancer. A 9-item behavior questionnaire is also included.

97. Buscho, Ardon E. *The Knowledge and Attitudes of Students, Parents, and Teachers in a Rural Iowa Community Concerning Four Controversial Health Areas.* Master's thesis, Mankato State College, Mankato, Minn., 1966.

Respondents were asked to indicate their knowledge, attitudes, and judgment concerning curriculum content in relation to smoking, alcohol, sex education, and public health. Parts I and II (knowledge and attitudes) contain 18 questions regarding each of the four areas. The curriculum part (III) contains a total of 20 questions.

98. Charlson, Vernon Rudolph. *The Need for Family Life Education on the Secondary School Level.* Doctoral dissertation, Indiana University, Bloomington, 1963.

This test instrument, for the twelfth grade, was designed to determine the student's attitude toward 'my need to learn about this.'

99. Dalis. *Development and Application of a New Health Education Appraisal Instrument.* See #72.

100. Dann, Roscoe James. *The Development of a Family Health Knowledge Test.* Master's thesis, University of Illinois, Urbana, 1965.

This test consists of 63 multiple choice test items, of which 27 are of the standard type with 4 or 5 distractors. The remaining items involve the interpretation of charts, and graphs concerning such topics as the menstrual cycle, growth, family life cycle. Although the author recommends extensive revision of the instrument, it presents interesting and unique ideas for the testing of knowledge, problem solving, and creative abilities.

Refer to: Dann, Roscoe J. 'The Development of a Family Health Knowledge Test,' *The Journal of School Health,* 36:450-53, November 1966.

101. Dent, Bertly E. *An Analysis of Health and Safety Knowledge and Selected Health and Safety Practices of the Boys and Girls of the Mobridge Senior High School.* Master's thesis, University of South Dakota, Vermillion, 1959.

An objective checklist-type questionnaire, consisting of 200 selected health and safety questions, was developed. Nine health areas are covered by the questions which ask for "yes" or "no" answers.

102. Dzenowagis, McPherson, and Irwin. *Harmful Health and Safety Misconceptions of a Group of Tenth-Grade Girls.* See #61.

103. Edwards, Ralph. *A Guide to the Development of Attitudes in School Health Instruction.* Doctoral dissertation, Teacher's College, Columbia University, New York, 1959.

Twenty health situations are described and each is followed by five statements of the "What would you do" or "How would you feel" type. Students indicate the strength of their agreement or disagreement with each of the statements. Some of the health topics included are the effects of smoking, fads and superstitions, approach to parenthood, communicable disease, and numerous others.

104. Heubach, Philip Gilbert. *A Survey of the Smoking Habits and Attitudes of High School Seniors.* Master's thesis, San Diego State College, 1964.

The questionnaire used in this study was developed from the one used in the Daniel Horn Portland, Oregon Study. The questionnaire was constructed to obtain data in three major areas: (1) students' smoking history and habits, (2) characteristics that distinguish smokers from nonsmokers, and (3) students' attitudes regarding smoking.

105. Lussier, Richard R. *Construction of a Growth and Development Health Knowledge Test for the Fourth Educational Level.* Master's thesis, University of California, Los Angeles, 1967.

One test form, consisting of 60 multiple choice questions, was developed.

106. Poole. *A Health Knowledge Test for High School.* See #86.

107. Sallak, V. J. *A Study of Smoking Practices of Selected Groups of Junior and Senior High School Students in Public Schools in Erie County (Exclusive of the City of Buffalo).* See #88.

108. Seffrin, John Reese. *A Family Health Knowledge Test.* Master's thesis, University of Illinois, Urbana, 1967.

This 59-item multiple choice test is a revision of the Dann Family Health Knowledge Test. See #100.

109. Smith, Bryan C. *A Study of the Venereal Disease Knowledge Held by Promiscous and Non-Promiscous Teenagers 15-18 Years of Age in Oregon.* Master's thesis, University of Oregon, Eugene, 1960.

An objective test, consisting of 77 items, was developed to provide a valid and reliable test for the evaluation of venereal disease knowledge held by 15-18 year old students.

110. Stauffer, Delmar Joe. *Consumer Health Knowledge Test.* Master's thesis, University of Illinois, Urbana, 1967.

This test contains 58 multiple choice items.

111. Vencel, Steve A. *Venereal Disease Education in Indiana Secondary Public Schools.* Doctoral dissertation, Indiana University, Bloomington, 1965.

A 75-item multiple choice test is designed for use in grades 9-12. Thirty test items are concerned with venereal disease; 45, with other diseases.

112. Vincent, Raymond J. *An Investigation of the Attitudes of Eighth Grade, Tenth Grade, and Twelfth Grade Students Toward Smoking Marihuana.* See #90.

113. Yeakle, Myrna A. *The Development of a Community Health Knowledge Test for Senior High School Students.* Master's thesis, University of California, Los Angeles, 1968.

This test consists of 49 multiple choice items. One test form is available. Publication by Tinnon-Brown Publishing Co., Los Angeles, is expected soon.

College

114. Adams, Shirley Lou. *Health Misconceptions Among Students Enrolled in Freshman Health Classes at the University of Oregon.* Master's thesis, University of Oregon, Eugene, 1960.

This is a 75-item misconceptions questionnaire, to be answered in terms of "Agree", "Disagree", or "Undecided." The subject areas included are: Food, diet, nutrition; organic functioning and disorders; prevention of disease and treatment of injury; mental health; eyes, teeth, hair, skin; first aid and medical treatment.

115. Adelson, Sheldon. *Evaluation of College and University Student Knowledge and Use of Health Services and Facilities.* Master's thesis, University of Wisconsin, Madison, 1963.

This test consists of one form, with 131 multiple choice items.

116. Borozne, Joseph. *A Determination of the Prevalence of Certain Harmful Health and Safety Misconceptions Among Freshmen Prospective Elementary School Teachers Attending Teachers Colleges in New England.* Doctoral dissertation, Boston University, Boston, 1957.

An instrument, consisting of 130 misconceptions, was constructed to determine the prevalence of misconceptions.
Refer to: Borozne, Joseph and Leslie Irwin. 'Prevalence of Certain Harmful Health Misconceptions Among Prospective Elementary School Teachers,' *Research Quarterly,* 31:387-91, October 1960.

117. Carr, Wilbur Lloyd. *The Development of an Instrument to Appraise the Effectiveness of the College Requirement in Health Education.* Doctoral dissertation, University of North Carolina, Chapel Hill, 1956.

The "College Freshman Health Inventory" consists of two parts, each containing 50 statements. Part one, the Health Attitude Inventory, is responded to in terms of the degree of agreement or disagreement with each statement. The second part, the Health Knowledge Inventory, consists of true and false statements. Eleven different health areas are represented in the test items.

118. Doran, Peter C. *A Comparison of Programmed Self-Testing Inventories in Televised College Health Instruction.* Doctoral dissertation, Southern Illinois University, Carbondale, 1966.

One test form is available. It consists of 80 multiple choice items. The test is designed for college freshmen and sophomores.

119. Dzenowagis, Borozne, and Irwin. *The Prevalence of Certain Harmful Health and Safety Misconceptions Among Prospective Elementary Teachers.* See #61.

120. Fuller, Daniel Royce. *Construction of a Family Life Knowledge Test and the Relationship of Selected Factors to the Test Scores.* Doctoral dissertation, University of Arkansas, Fayetteville, 1967.

This 77-item multiple choice test consists of nine parts, including such topics as reproduction, pregnancy, childbirth, infant care, family economics, and sexual needs and hygiene.

121. Gaines, Mary Josephine. *Consumer Health Misconceptions.* Doctoral dissertation, Stanford University, Stanford, Calif., 1967.

This 93-item consumer health opinionnaire includes such content areas as consumer legislation and protection, weight reduction, exercise and fitness.

122. Gist, Annie L. *Health Misconceptions Subscribed to by Freshmen in Selected Negro Colleges.* Doctoral dissertation, New York University, New York, 1956.

A *Health Information Test,* consisting of 76 true and 24 false statements, was developed to measure health misconceptions.

123. Gloor, Reta. *Misconceptions in Social Hygiene Among Freshmen Men and Women at the University of Oregon.* Master's thesis, University of Oregon, Eugene, 1959.

In this test, the respondents indicate the extent of their agreement or disagreement with each of 96 statements. A variety of sub-areas in social health are included, such as venereal disease, pregnancy, conception and contraception, menstruation, premarital sex, and others.

124. Hill, Elizabeth Jane. *Dental Health Misconceptions Among Freshmen College Women.* Master's thesis, University of Illinois, Urbana, 1962.

The test instrument developed for this study consisted of 28 multiple choice items. The dental health areas included fluoridation, dental development, dental prophylaxis, dental services, and prevention of oral disease.

125. Juhasz, Anne M. *A Study of the Adequacy and Accuracy of Sex Knowledge of University Students.* Independent study, Loyola University, Chicago, 1967.

This study was conducted at the University of British Columbia, to help establish the need for instruction in Canadian schools. Thirty multiple choice items and a questionnaire concerning the respondent's personal background, source, adequacy, and timing of information were developed.
Refer to: Juhasz, Anne M. 'How Accurate Are Student Evaluations of the Extent of Their Knowledge of Human Sexuality?' *Journal of School Health,* 37:409-12, October 1967.

126. Keeve, J. Philip and Gerald J. Specter. *Responses of 231 Public School Teachers to a Health and Safety Questionnaire.* School of Public Health, University of Pittsburgh, 1967.

This eighty-one item first aid, safety, and health knowledge multiple choice questionnaire was used with teachers in the Newburgh City, N. Y. school district, in an attempt to determine the need for in-service education. The questionnaire, results, and references are available from the authors.
Refer to: *The Journal of School Health,* 57:384-86, October 1967 for a discussion of the procedures and findings.

127. Lyons, Marjory D. *Analysis of Health Knowledge of College Women,* Doctoral dissertation, University of Iowa, Iowa City, 1961.
The 54-item multiple choice test developed in this study is valid and reliable for college women in midwest liberal arts colleges. Sample copies are available from the author at Ripon College, Ripon, Wisconsin.

128. Richardson, Charles Everett. *Three Test Instruments for Measuring Health Attitudes of College Students.* Doctoral dissertation, University of California, Los Angeles, 1959.

This set of 51 incomplete sentences, to be completed by students, could be used to determine beliefs, attitudes, and feelings. Course content and/or class discussions could be based on this test.
Refer to: Richardson, Charles E. 'A Sentence Completion Health Attitudes Test for College Students,' *The Journal of School Health,* 30:32-35, January 1960.

129. Richardson, Jack James. *A Study of the Relationship of Attitudes of College Students and Their Parents Toward Consump-*

tion of Alcoholic Beverages. Doctoral dissertation, Southern Illinois University, Carbondale, 1964.

This is a 21-item Thurstone attitude scale with the consumption of alcoholic beverages as the psychological object. Two test forms were developed.

130. Scahill, Jeanette Lois. *Effects of Secondary School Health Instruction on the Health Knowledge of College Freshmen.* Doctoral dissertation, University of Iowa, Iowa City, 1963.

Nine content areas were included in the development of the 85-item multiple choice "College Health Knowledge Inventory" used in this study with freshmen women.

131. Segal, Zev. *A Comparison of Sex Education Attitudes of Graduate Students in Elementary Education and Graduate Students in Secondary Education.* Doctoral dissertation, New York University, New York, 1962.

Following a review of the college textbooks in health, family life, and sex education, a Likert-type scale consisting of 80 items was constructed. Eleven different areas of sex education were represented in the scale.

132. Serdula, George. *Standardization of a First Aid Knowledge Test for College Students.* Doctoral dissertation, Indiana University, Bloomington, 1957.

Two test forms, each consisting of 75 multiple choice items, were developed. Sample tests and norms (developed primarily for Indiana) are available from the author at St. Cloud State College, St. Cloud, Minnesota.

133. Shaw, Donald D. *A Comparison of the Effectiveness of Teaching General Hygiene by Closed-Circuit Television and by Lecture Procedures.* Doctoral dissertation, Oregon State University, Corvallis, 1966.

This 100-item multiple choice test includes eleven health topic areas. It was developed primarily for college freshmen.

134. Weichman, Gerald H. *A Multiple Factor Analysis of Premarital Sex Attitudes of College Undergraduates.* Doctoral dissertation, Southern Illinois University, Carbondale, 1965.

This instrument consists of 36 items to which the respondent

indicates his attitude. The item-statements are graded on a five point scale. Two test forms are available.

135. Yancey, Maude J. *A Study of Some Health Misconceptions of Prospective Teachers in Negro Colleges of North Carolina.* Doctoral dissertation, University of Michigan, Ann Arbor, 1952.

A true-false type of checklist, covering a variety of health areas, was developed.